BRUHAT BANGALORE MAHANAGARA PALIKE

FIRST AND FINAL BILL

MEASUREMENT SHEET

Name of work:	Improvements to Roads and Drains at Ganesha Layout and Surrounding areas in Ward No. 15 (Kuvempunagara).
Estimated Cost :	Rs. 25.00 Lakhs
Head of Account :	P3726 Zonal Public Works - POW Works
Job Code:	015-23-000005
Name of Agency:	Sri.B.P Shanmugam, No. 28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru - 560032.
Work order No:	BBMP/EE/BTP/WO/169/2022-23 D: 15-03-2023.
Measurements Recarded on :	28-11-2023

Sl. No.	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
1	**Earth work excavation by manual means for drains**,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost. **In all kinds of soils Depth upto 1.5 m**								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 to 02 is =					**270.00**	Cum	180.00	**48600.00**
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					**40.20**	Cum	5020.00	**201804.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 to 05 is =					**88.00**	Cum	5999.51	**527957.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.								
	Qty as per Premeasurement Recorded vide E-Bill Page No. 08 is =					**5.53**	Tonnes	80000.00	**442400.00**

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl. No.	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate								
	Ramp for Culvert								
	Vinayakanagara 5th Cross	2	5.00	1.00	0.15	1.50			
	Vyshnavi Layout 2nd A Cross	2	7.60	1.10	0.15	2.51			
	Srinidhi Layout 8th Cross	2	7.00	1.00	0.15	2.10			
		Total Qty =				**6.11**			
		Qty Ltd Approved Qty =				**6.00**	Sqm	6000.00	36000.00

Assistant Engineer
Ward No. 15

Contractor

Assistant Executive Engineer
Vidyaranyapura Sub Division

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B.B.M.P, Bangalore - 97

Sl. No.	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
	Measurements Recarded on : 28.11.2023								
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge of the Work.								
	Precast Covering Slab for RCC Drain								
	Ganesh Layout 7th Cross								
	From Main Road to Dead End								
	N/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	8.80	0.90		7.92			
	From Dead end to House								
	S/S	1	15.00	0.90		13.50			
		1	7.00	0.90		6.30			
	Ganesh Layout 5th Cross								
	From Main Road to Dead End								
	N/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	13.50	0.90		12.15			
	From Dead end to Main Road								
	S/S	1	15.00	0.75		11.25			
		1	15.00	0.75		11.25			
		1	13.50	0.75		10.13			
	MS Palya Mubarak Road								
	From Sandeep Unnikrishnana Road to 2nd Cross								
	N/S	1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	15.00	0.90		13.50			
		1	2.40	0.90		2.16			
		2	0.60	0.90		1.08			
			Total Qty =			**210.74**			
			Qty Ltd Approved Qty =			**210.60**	Sqm	1500.00	**315900.00**

Assistant Engineer
Ward No. 15

B.P. Shegun
Contractor

Assistant Executive Engineer

ABE (VRP) SD

Assistant Executive Engineer
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Sl. No.	Description of Item	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
	Measurements Recarded on :								
7	Providing & fixing RCC Precast Cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 200mm & down size with steel reinforcement including formwork, lift charges, curing & concrete finished surface both sides etc,. And as per drawing & the direction of Engineer-in-charge. **(Approved Data Rate)**								
	Culvert Deck Slab								
	Vinayakanagara 5th Cross	1	5.00	1.20		6.00			
	Vyshnavi Layout 2nd A Cross	1	7.60	1.20		9.12			
	Srinidhi Layout 8th Cross	1	7.00	1.20		8.40			
	Missing Slabs	1	0.60	1.20		0.72			
			Total Qty =			**24.24**			
			Qty Ltd Approved Qty =			**24.00**	Sqm	4500.00	**108000.00**
8	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum.								
	Same as Qty Vide Item No.1					243.00			
			Total Qty =			**240.30**	Cum	70.00	**16821.00**
9	Cost of Haulage Excluding Loading and Unloading, Case-1 : Surfaced Road A Taking output 10 t load and lead 10 km = 100 t.km								
	Same as Qty Vide Item No.8					240.30	Cum		
	Density of Sand/Debris i.e 1.28 T	240.30		1.28		307.58	t.kms		
			Total Qty =			**307.58**	t.kms	100.00	**30758.00**
								Sub Total	**1728240.00**
								Add GST 18%	**311083.00**
								TOTAL	**2039323.00**

Assistant Engineer
Ward No. 15

Contractor

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Vidyaranyapura Sub Division

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